Introduction

Thank you for purchasing Magic Box. Magic Box is a 1 channel DMX laser can be controlled via a standard DMX controller. It is a lightweight, mini intelligent fixture and is an ideal product for discos, clubs, exhibitions and any place that need visionary effect. For safe operation, read this manual before powering or installing the fixture, follow the safety precautions listed below, and observe all warnings printed in this manual and on the fixture.

Safety Precautions

- Do not spill liquids into or onto your unit. If this ever happens, disconnect the main power immediately. Do not connect this unit to any dimmer pack.
- Always disconnect from main power before making any type of connection.
- Be sure to locate this unit in a place with adequate ventilation at least 15 cm from a wall, and mount this unit in safe and stable matter.
- To prevent fire or shock hazard, do not expose this unit to a high temperature or high humidity area. Please unplug unit when not in use.
- Always keep combustible materials away from the fixture.
- Class 3B laser should be mounted at or above 3 meters height. Project Class 3B laser light above eye level. Do not project Class 3B Laser light on specular material.
- The entrance to area where Class3B laser is used should be posted with appropriate warning signs.
- This unit is intended for indoor use. Use of this unit outdoors voids all warranties.
- Always refer service to a qualified technician. Never look directly into laser beam.
- Occasional breaks are necessary to prevent breakdowns.
- **Caution - Use of controls or adjustments or performance of procedures other than as specified herein may result in hazardous radiation exposure!**

Set Up

Unpacking Magic Box comes with: 2 keys (Class 3B model), 1 hanging bracket, 2 clamp levers, 2 washers, 1 power cord and 1 user manual. Unpack carefully and be sure that no damage has occurred during shipping. If there is anything missing or appear to be damaged please contact your dealer.

Power Connection Be sure the source voltage in your area matches the required voltage for your Magic Box before plugging your unit in. Incorrect voltage selection will detrimentally affect the operation of this product.

DMX Cable Connection Magic Box is a one-channel DMX fixture that can be operated with universal DMX controller. This unit and DMX controller require a standard 3-pin XLR connector for data input and data output.

Installation/Mounting Magic Box should be properly mounted by using a suitable hanging clamp and safety cable. Use in a well-ventilated area. Be sure no ventilation slots are blocked.

Specifications

Product Name	Magic Box	
Model No.	AL10-05R/ 30R/ 50R/ 100R/ 200R	AL10-60B
Laser Diode	4.9/ 30/ 50/ 100/ 200mW	60mW
Laser Color	Red	Blue
Model No.	AL10-05G/ 20G/ 30G/ 50G/ 100G/ 200G/ 300G/ 500G	
Laser Diode	4.9/ 20/ 30/ 50/ 100/ 200/ 300/ 500mW	
Laser Color	Green	
Net Weight	4Kgs	
Power	AC 100V~120V or 220V~240V 50/60HZ	
Classification	4.9~20mW: 3R/ 30~500mW: 3B	
Size (mm)	L220 × W280 × H172	
Fuse	20mm×2A	
Housing	Metal	
Beam Divergence	< 1.5 mrad	
Operating temperature	18℃~25℃	

Safety Label Position

Bottom

Identification label

Certification label

Warning label

Front Panel

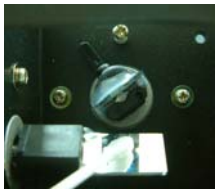
Laser aperture & aperture label

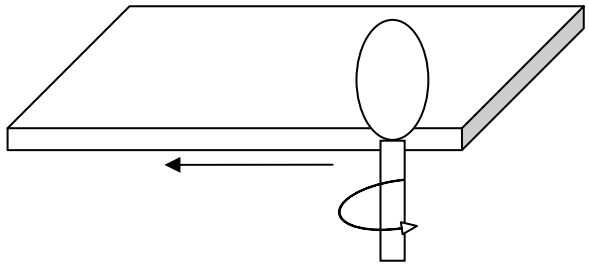
Cleaning

Caution: Shut off the main power prior to cleaning unit.

Cleaning mirrors

- Use a cotton swab and rubbing alcohol to clean the internal laser mirrors.
- Remember to twirl slowly and press gently. Applying to much pressure can break the mirrors.
- Cleaning frequency depends on the environment in which the fixture operates.





Cleaning case

Use a soft cloth and normal glass cleaner to clean the casing. Be sure to dry all parts before plugging the unit back in.

Operating Modes

Note: User must turn on key control to emit laser

1. Stand-Alone Operation (Auto, Sound Active Mode)

Auto mode

- The unit runs built-in program to change effects automatically. Set DIP switch pin 10 to ON, other pins to OFF to run Auto mode

Sound Active mode

- This unit has built-in program that will react to sound and music under Sound Active mode. Set all DIP switch pins to OFF to run Sound Active mode

2. Master-Slave Operation (Auto, Sound Active Mode)

This mode allows user to link up to 32 units to run the Master-Slave operation. In the Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling unit. Daisy chain your units via the standard XLR microphone cables in the following configuration: 'Out' from the first unit to 'In' on the second, 'Out' from the second to 'In' on the third and so on.

Auto mode

- To set the master: Set DIP switch pin 11 and 10 to ON, other pins to OFF.
- To set the slaves: Set pin 1 to ON, other pins to OFF

Sound Active mode

- To set the master: Set DIP switch pin 11 to ON, other pins to OFF.
- To set the slaves: Set pin 1 to ON, other pins to OFF

3. DMX Operation

DMX operation gives the user freedom to create his/her own programs tailored to their own individual needs. To run this unit in DMX mode, connect the unit to any standard DMX controller via XLR connectors. Please consult DMX controller manual to determine address.

DMX Signal Levels

DMX 512 LEVEL 0~255	*Laser effect Control
230 ~ 255	Sound Active
225 ~ 229	Effect45
: :	: :
10 ~ 14	Effect2
5 ~ 9	Effect1
0 ~ 4	OFF
There are 45 effects preset between value5 to 229. Select them by changing signal level as above introduction.	

Operating Modes (Cont.)

Function Selection Chart

DIP SWITCHES CHART												FUNCTION
1	2	3	4	5	6	7	8	9	10	11	12	
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	╳	／	SOUND MODE
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	╳	／	AUTO MODE
SET SOUND / AUTO MODE										ON	／	DMX MASTER
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	／	DMX SLAVE
SET ADDRESS									OFF	OFF	／	DMX MODE

╳ / : Not Used

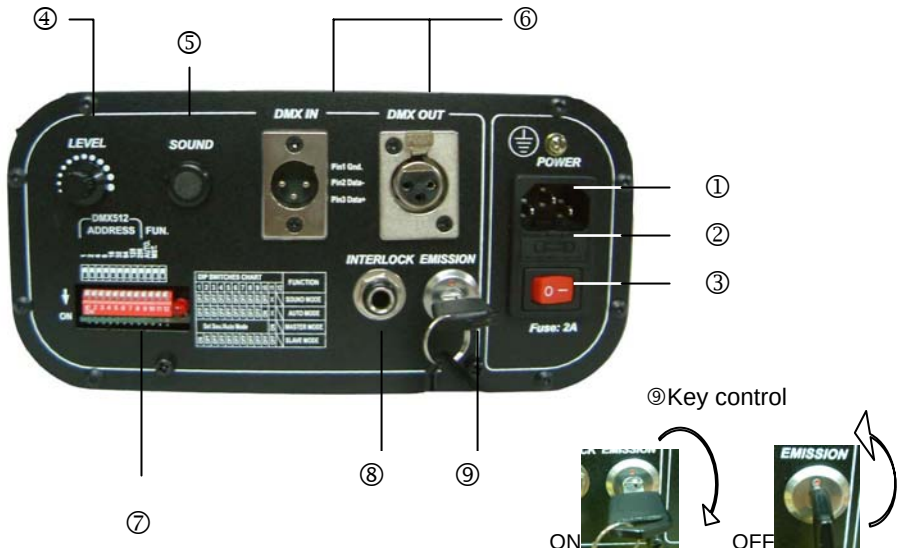
Trouble Shooting

- If there is no light from the unit, please check the main power supply and fuse.
- If unit does not respond to DMX, please check the DMX cables are connected properly and are wired correctly.
- If unit does not response to the music please adjust the sound-active sensitivity level by Sensitivity Adjustment Knob.
- If the beam is fuzzy please refer to “cleaning“ section to clean the mirror first.
- If problems cannot be solved please contact your dealer for service

Fuse Replacement

Always disconnect from main power supply before attempting to replace the fuse
Remove the old fuse from the holder and replace with the exact same type fuse.
Replacement with anything other than the specified part may damage your unit.

Control Panel Introduction



①Power Cord Connection

②Fuse

③Power Switch

④Sensitivity Adjustment Knob

⑤Microphone

⑥DMX In & Out

⑦DIP Switch Pin

⑧Interlock connector

⑨Key control

Magic Box

AL10 Series User Manual

Your Best Mate

in Laser Lighting!

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